

Comparisons of Job Characteristics

Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)
Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)

Compare Knowledge
 Compare Skills
 Compare Abilities
 Compare Detailed Work Activities
 Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 77

Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)
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Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	23.6	19.8	<< Extensive education and/or training may be required
Engineering and Technology	5.7	10.2	12.2	> Current knowledge level is likely sufficient
Physics	4.3	7.9	6.7	< Expanded education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 30

Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011)
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Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Troubleshooting	4.5	13.6	10.4	<< Extensive development of skills in this area may be required
Repairing	3.4	13.2	10.0	<< Extensive development of skills in this area may be required
Equipment Maintenance	3.5	12.9	10.1	< A higher skill level may be required
Operation Monitoring	6.6	11.9	10.1	< A higher skill level may be required
Quality Control Analysis	5.9	11.9	11.6	0 Current skill level may be sufficient
Operation and Control	5.4	10.8	8.5	< A higher skill level may be required
Equipment Selection	3.3	9.3	7.5	< A higher skill level may be required
Management of Material Resources	3.7	6.4	9.7	>> Skill level is likely more than sufficient
Installation	1.7	6.0	3.4	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 52			
Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.9	9.1	<<	Extensive improvement in abilities may be required
Multilimb Coordination	6.0	13.5	9.0	<<	Extensive improvement in abilities may be required
Extent Flexibility	4.8	13.4	5.3	<<	Extensive improvement in abilities may be required
Manual Dexterity	6.5	13.0	7.7	<<	Extensive improvement in abilities may be required
Finger Dexterity	7.6	12.9	9.2	<<	Extensive improvement in abilities may be required
Visualization	7.5	12.2	10.4	<	Some improvement in abilities may be required
Reaction Time	4.8	11.4	7.0	<<	Extensive improvement in abilities may be required
Hearing Sensitivity	5.6	11.0	9.7	<	Some improvement in abilities may be required
Response Orientation	4.0	9.4	6.5	<<	Extensive improvement in abilities may be required
Sound Localization	2.2	5.8	6.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 71
Focus Occupation: First-Line Supervisors of Mechanics, Installers, and Repairers (49-1011) Associated Occupation: Mobile Heavy Equipment Mechanics, Except Engines (49-3042)		
Work Activities	Exclusivity of Activity	
Determine installation, service, or repair needed	58	
Develop maintenance schedules	82	
Diagnose mechanical problems in machinery or equipment	65	
Direct and coordinate activities of workers or staff	3	
Inspect machinery or equipment to determine adjustments or repairs needed	42	
Read blueprints	10	
Read schematics	34	
Read technical drawings	7	
Read work order, instructions, formulas, or processing charts	9	

Understand service or repair manuals	40
Understand technical operating, service or repair manuals	6

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 83

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Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Data management and query software	1
Industry specific software	1
Integrated circuits	18
Personal communication devices	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.